LOST Test Plan

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Abstract

These test cases are designed to highlight any flaws in functionality. It is assumed that a database server has been started, a database created, and the apachectl start command has been used before any test cases are run. Any item that begins with 'Try' is expected to fail and should lead to the failure condition for that category. Any item that does not begin with 'Try' is expected to succeed and should lead to the success condition for that category. Anytime the user account should change, make sure to logout first(End Session button on most pages, or /logout route).

1 Creating Users

A minimum of 2 each facilities officers and logistics officers should be created. Successful creation should be displayed, with a link to login. Failed creation should redirect to a failure page with a link back to the create user page.

1. Create:

   (a) username: TestLO1, password: testCAPS, role: logistics officer
   (b) username: TestLO2, password: test123, role: logistics officer
   (c) username: TestFO1, password: password, role: facilities officer
   (d) username: TestFO2, password: @*test, role: facilities officer

2. Try to duplicate username: TestLO1, password: anything, role: facilities officer

3. Try to create user without password

2 Logging In

Successful logins should lead to that user's dashboard, displaying navigation aids, task links, user's name and user's role. Logistics officer dashboards should have buttons for asset disposal and transfer requests while facilities officer dashboard should not. Failed logins should notify of failure and provide link back to login page.

1. Try to login as TestLO1 with password 'testcaps'

2. Try to login as TestFO1 without password

3. Try to login as TestLO2 with password 'wrongpassword'

4. Try to login as NotInDB with password 'anything'

5. Log in as:

    (a) TestLO1, testCAPS (then log out with End Session button)
    (b) TestLO2, test123 (then log out with End Session button)
    (c) TestFO1, password (then log out with End Session button)
    (d) TestFO2, @*test (then log out with End Session button)

3   Adding Facilities

Successful additions will immediately display at top of page; unsuccessful additions will redirect to an 'addition failure' page with a link back to the add facilities page.

1. Add 'Washington, D.C.', DC

2. Add 'Headquarters', HQ

3. Try to add 'Denver, Colorado', DC

4. Try to add 'Headquarters', HEAD

4   Adding Assets

Successful additions will immediately display at top of page; unsuccessful additions will redirect to an 'addition failure' page with a link back to the add assets page.

1. Add asset tag: 123456, description: Chocolate Frogs, facility: Washington, D.C., date: 01/01/2016

2. Add asset tag: QWERTY, description: Keyboard, facility: Headquarters, date: 02/29/2016

3. Add asset tag: asdfg, description: XBox, facility: Headquarters, date: 05/03/2012

4. Add asset tag: tobetossed, description: Junk, facility: Washington, D.C., date: 04/01/2016

5. Add asset tag: donotapprove, description: Baggage, facility: Washington, D.C., date: 01/01/2017

6. Try to add asset tag: 123456, description: Won't Work, facility: Washington, D.C., date: 02/02/2017

5   Asset Disposal

Failure to access a page should lead to a notification that current user's role cannot access that route, with a button back to dashboard. Failure to dispose of asset should inform user disposal did not occur, and why it didn't happen. Successful disposal should return user to disposal page and update asset's information in database.

1. Try to access route /dispose_asset as TestFO1 or TestFO2

2. Login as TestLO1, access disposal through dashboard

3. Dispose of asset tobetossed, date: 04/02/2016

4. Try to dispose of asset tobetossed, date: 05/01/2016

5. Try to dispose of asset doesnotexist, date: 11/11/2011

6   Transfer Process

Failure to access a page should lead to a notification that current user's role cannot access that route, with a button back to dashboard.
Stages:

1. Make a Transfer Request
   Successful requests should display page indicating request was successful.

   (a) Try to access route /transfer_req as TestFO1 or TestFO2

   (b) Login as TestLO1, access request through dashboard

   (c) Make request for asset 123456 to go to Headquarters

   (d) Login as TestLO2, access request through dashboard

   (e) Make request for asset QWERTY to go to Washington, D.C.

   (f) Make request for asset asdfg to go to Washington, D.C.

   (g) Make request for asset donotapprove to go to Headquarters

   (h) Try to request asset tobetossed go to Headquarters

2. Act On Transfer Request(Approve or Reject)
   After acting on request, user is redirected to dashboard, acted on request is no longer displayed.

   (a) Try to access route /approve_req as TestLO1 or TestLO2

   (b) Login as TestFO1, access request #1 through dashboard and reject it

   (c) Access and approve request #2

   (d) Login as TestFO2, access and approve request #3 through dashboard

   (e) Try to access by typing in URL: localhost:8080/approve_req?req_num=2 (already acted on)

3. Update Transfer (Set Load/Unload Times)
Successful update will redirect to dashboard. Desired behavior for unsuccessful update is to inform user that update failed, and why it failed.

   (a) Try to access route /update_transit as TestFO1 or TestFO2

   (b) Login as TestLO1, access request #2, set load date as 03/22/2017

   (c) Login as TestLO2, access request #2

   (d) Try to set unload date as 3/20/2017(Before loading)

   (e) Access request #2 and set unload date as 03/29/2017

   (f) Try to access #4 by typing in URL: localhost:8080/update_transit?req_num=4 (hasn't been approved yet)

   (g) As TestLO2, access request #3

   (h) Try to set load date as 03/13/2017(Before approval)

   (i) Access request #3 and set load date as 04/01/2017

   (j) Login as TestLO1, access request #3 and set unload date as 04/03/2017

   (k) Try to access by typing in URL: localhost:8080/update_transit?req_num=3 (transfer already completed)

7   Run Reports

1. Run Asset Report

   (a) From any dashboard, access Asset Report

   (b) Select Headquarters, 06/01/2012: Should display asdfg

   (c) Select Washington, D.C., 07/01/2014: Should display empty table

   (d) Leave facility box blank, 01/01/2017: Should display 123456, QWERTY, and asdfg

   (e) Leave facility box blank, 03/26/2017: Assuming requests are numbered correctly, QWERTY should be in transit. Something should definitely be listed as being at 'in transit'.

2. Run Transfer Report

   (a) From any dashboard, access Transfer Report

   (b) Select 01/01/2017: Should display empty table

   (c) Select 03/25/2017: Should display request #2's information

   (d) Select 04/01/2017: Should display request #3's information

8   Check Database Correctness

From command line, access database with psql 'whatever test database name is'

1. Check Users Table
   SELECT * FROM users;
   Rows should be:

   (a) 1, TestLO1, testCAPS, 1, t
   (b) 2, TestLO2, test123, 1, t
   (c) 3, TestFO1, password, 2, t
   (d) 4, TestFO2, @*test, 2, t

2. Check Facilities Table
   SELECT * FROM facilities;
   Rows should be:

   (a) 1, in transit, INTRAN
   (b) 2, Washington, D.C., DC
   (c) 3, Headquarters, HQ

3. Check Assets Table
   SELECT * FROM assets;
   Rows should be:

   (a) 1, 123456, Chocolate Frogs, 2016/01/01
   (b) 2, QWERTY, Keyboard, 2016/02/29
   (c) 3, asdfg, XBox, 2012/05/03
   (d) 4, tobetossed, Junk, 2016/04/01
   (e) 5, donotapprove, Baggage, 2017/01/01

4. Check Transfer Requests Table
   SELECT * FROM transfer_requests;
   Rows should be:

   (a) There should not be a request_pk=1
   (b) 2, 2, 'date test is being run', 3, 2, 2, 3, 'date test is being run', 2017/03/22, 03/29/2017, 1, 2
   (c) 3, 2, 'date test is being run', 3, 2, 3, 4, 'date test is being run', 2017/04/01, 2017/04/03, 2, 1
   (d) 4, 2, 'date test is being run', 2, 3, 5, rest of row is empty

5. Check Asset Location History
   SELECT * FROM asset_history;
   Rows should be:

(a) 1, 2, 2016/01/01, -blank-

(b) 2, 3, 2016/02/29, 2017/03/22

(c) 3, 3, 2012/05/03, 2017/04/01

(d) 4, 2, 2016/04/01, 2016/04/02

(e) 5, 2, 2017/01/01, -blank-

(f) 4, -blank-, 2016/04/02, -blank-

(g) 2, 1, 2017/03/22, 2017/03/29

(h) 2, 2, 2017/03/29, -blank-

(i) 3, 1, 2017/04/01, 2017/04/03

(j) 3, 2, 2017/04/03, -blank-